

B.1.6. Other Collaborative Projects--*C.D. Lin*

We have collaborated with a number of experimental groups in providing theoretical support for their measurements. In collaboration with JRML experimentalists, my former postdoc Dr. Y.D. Wang calculated the ejected electron momentum distributions as well as the recoil-ion momentum distributions for a number of collision systems, see Publications #51 and #52, #1, with Dr. Richard's group, and #34 for ionization and #36 for electron capture processes, with Dr. Cocke's group.

Outside the JRM Laboratory, we have these three collaborations:

- (1) The dependence of electron capture cross sections on the directed Stark-Rydberg states, with Dr. Keith MacAdam's group at Kentucky, see Publication #54.
- (2) Charge transfer cross sections in ion-ion collisions, with the Giessen group in Germany, see Publication #20.
- (3) The angular distribution and polarization of the H_{α} line in $H^+ + H$ collisions, in collaboration with the astrophysical group of Dr. Feautrier at Meudon Observatory, France, see Publication #21.